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	5	a signal processor operatively coupled to said detector, said signal
	6	processor receiving said detector output waveform, said signal processor
	7	configured to:
Д1	8	transform said detector output waveform into a spectral
	9	domain waveform;
	10	identify a series of spectral peaks and peak frequencies
	11	corresponding to said spectral peaks in said spectral domain
	12	waveform; and
	13	apply a plurality of rules to said spectral peaks and said peak
	14	frequencies in order to determine an estimate for said pulserate.
	B 1	4 18. (Amended) A physiological monitor attached to a living organism.
	2	said organism [comprising] having a heart beating at an unknown pulserate, said
	3	monitor comprising:
	4	a detector responsive to physiological properties relating to said
	5	heartbeats, said detector producing a detector output waveform; and
A2	6	a signal processor operatively coupled to said detector, said signal
	. 7	processor receiving said detector output waveform, said signal processor
	8	configured to:
	9	perform a first transform to transform said detector output
	10	waveform into a waveform in a first transform domain;
	11	perform a second transform, to transform said waveform in
	12	said first transform domain into a waveform in a second transform
	13	domain;
	14	search said waveform in said second transform domain for a
	15	largest spectral peak and a first frequency corresponding to said
	16	largest spectral peak; and
	17	compute an estimate of said unknown pulserate from said

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first frequency.

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Ø	29.	(Amended)	The physiological monitor of Claim 28, wherein said		
signal	processo	or is further c	onfigured to:		
		search said	waveform in said first transform domain for a highest		
	spectral peak and a second frequency corresponding to said highest spectra				
	peak; a	nd			

frequency if said first frequency is above a threshold [frequency] frequency.

36. (Amended) In a physiological monitor attached to a living organism, said organism [comprising] having a heart beating at an unknown pulserate, said monitor having a detector responsive to physiological properties relating to said heartbeats, said detector producing a detector output waveform, a method comprising the steps of:

compute said estimate of said unknown pulserate from said second

performing a first transform to transform said detector output waveform into a waveform in a first transform domain;

performing a second transform, to transform said waveform in said first transform domain into a waveform in a second transform domain;

searching said waveform in said second transform domain for a largest spectral peak and a first frequency corresponding to said largest spectral peak; and

computing an estimate of said unknown pulserate from said first frequency.

## <u>REMARKS</u>

In response to the June 10, 1998 Office Action, Applicants respectfully request the Examiner to reconsider the above-captioned application in view of the foregoing amendments and the following comments.